

Fig. 1A

ATGAAGCTCGCCGCCCTCCTGGGGCTCTGCGTGGCCCTGTCCTGCAGCTCCGC
TCGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGC
TGGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCA
CCCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCA
CCTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG
GGGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 1B

CGTGCTTTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGCT
GGAGTCGGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCAC
CCTCAACCCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCAC
CTCATAGAGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTG
GGGCCGTGAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 1C

TTCTTAGTGGGCTCGGCCAAGCCTGTGGCCCAGCCTGTCGCTGCGCTGGAGTC
GGCGGCGGAGGCCGGGGCCGGGACCCTGGCCAACCCCTCGGCACCCTCAAC
CCGCTGAAGCTCCTGCTGAGCAGCCTGGGCATCCCCGTGAACCACCTCATAG
AGGGCTCCCAGAAGTGTGTGGCTGAGCTGGGTCCCCAGGCCGTGGGGGCCGT
GAAGGCCCTGAAGGCCCTGCTGGGGGCCCTGACAGTGTTTGGC

Fig. 2A

MKLAALLGLCVALSCSSARAFLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTL
NPLKLLSSLGIPVNHIEGSQKCVAELGPQAVGAVKALKALLGALT VFG

Fig. 2B

RAFLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHIE
GSQKCVAELGPQAVGAVKALKALLGALT VFG

Fig. 2C

FLVGS AKPVAQPVA ALESAAEAGAGTLANPLGTLNPLKLLSSLGIPVNHIEGS
QKCVAELGPQAVGAVKALKALLGALT VFG

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Fig. 3A

ATGAAGCTTACCACCACCTTTCTAGTGCTCTGTGTGGCTCTGCTCAGTGA
TGGTGTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGG
CCGCCCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACC
ATTAAGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCAT
TGGATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGA
GGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGGT

Fig. 3B

GTTGCTTTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGC
CCTTGCTCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTA
AGCCACTTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATGG
ATCCTCTCATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGC
TGTAGGAGCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGGT

Fig. 3C

TTCTTCATGGACTCATTGGCCAAGCCTGCGGTAGAACCCGTGGCCGCCCTTGC
TCCAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAGCCAC
TTGGCCATCCTGAGGTTTCATCCTGGCCAGCATGGGCATCCCATGGATCCTCT
CATAGAGGGATCCAGGAAGTGTGTACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGTCCTGACAATGTTCCGGT

MKLTTTFLVLCVALLSDSGVAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPL
 SHLAILRFILASMGIPLDPLIEGSRKCVTELGPVAVGAVKSLLGVLTMTFG

VAFFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLI
EGSRKCVTELGP EAVGAVKSLLGVLT MFG

FFMDSLAKPAVEPVAALAPAAEAVAGAVPSLPLSHLAILRFILASMGIPLDPLIEG
SRKCVTELGP EAVGAVKSLLGVLT MFG

[illegible]

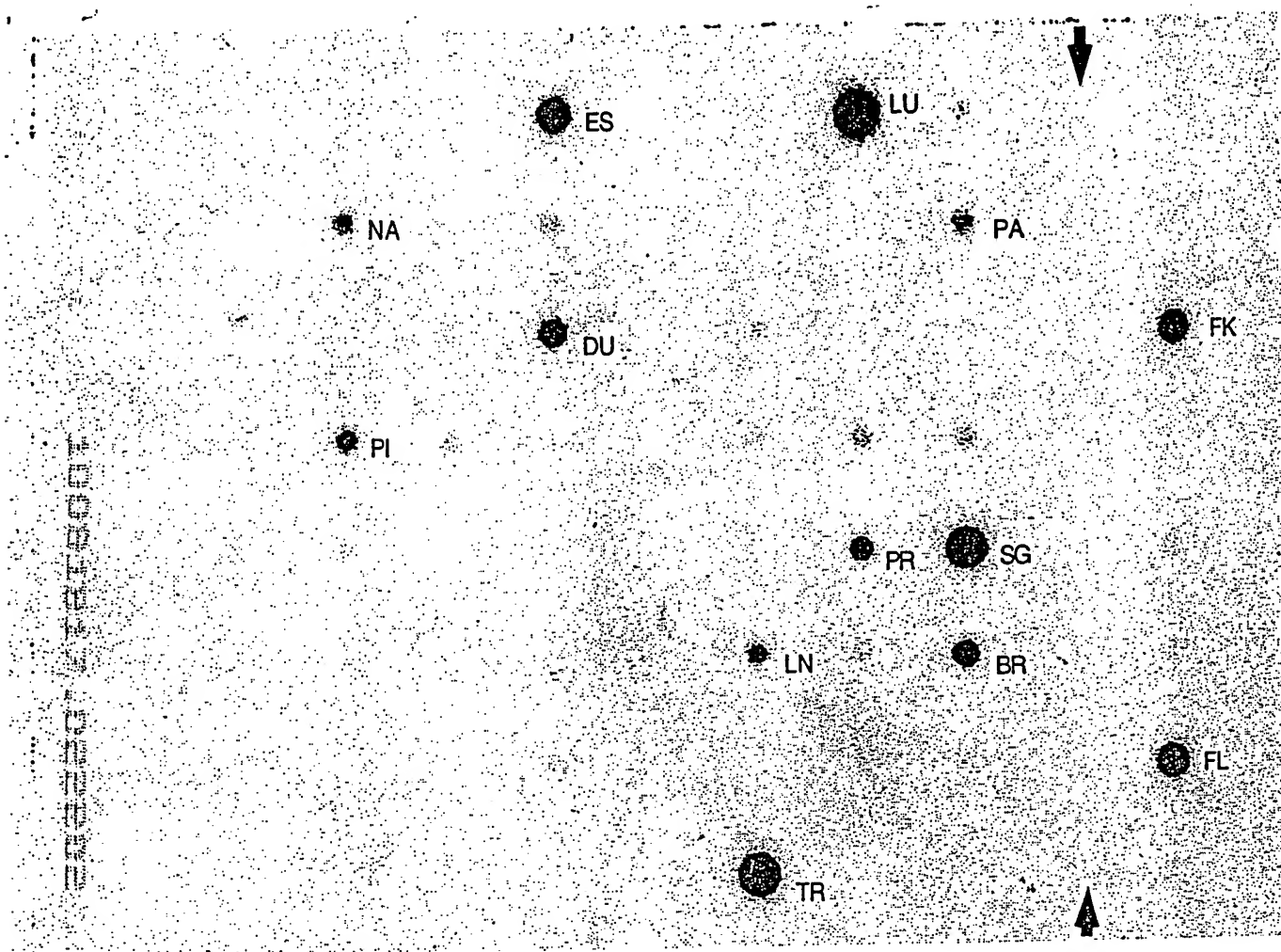


Fig. 5A

Fig. 5B

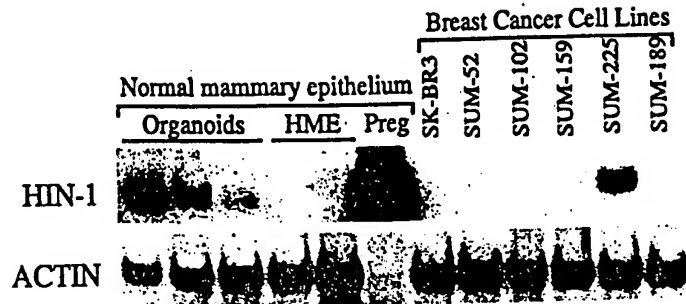


Fig. 5F

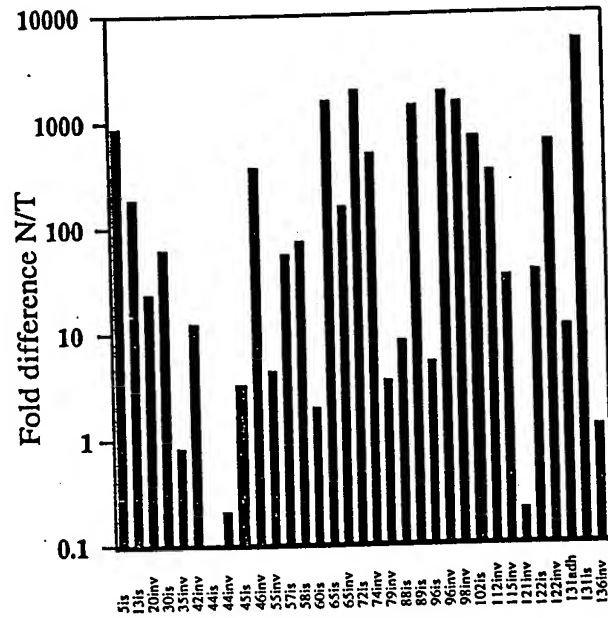


Fig. 5G.

Fig. 6A

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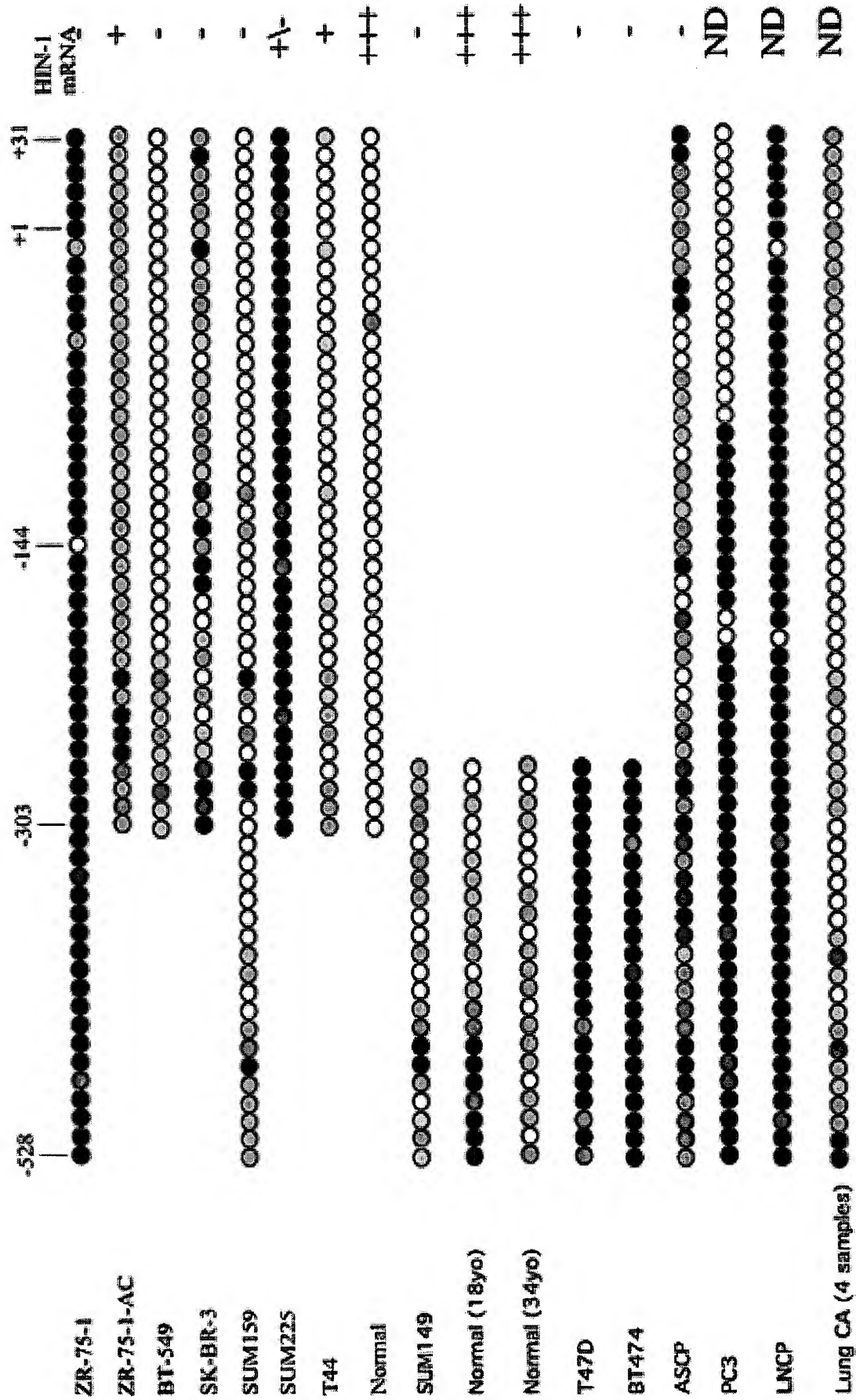


Fig. 6B

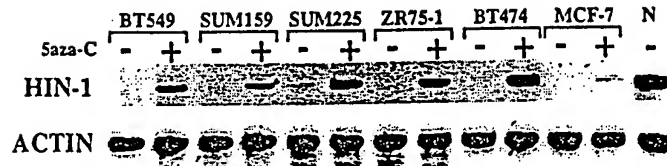


Fig. 6C



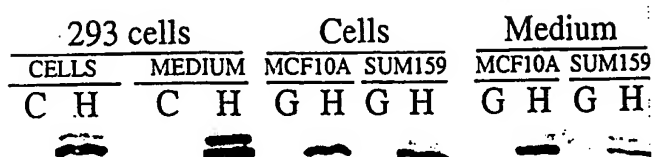


Fig. 7

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Fig. 8

CGGCCGGGGAGGCGGCCGGGAGTGAGGCCTGATCGTCCCTGGCGCCTCCACC
TCCCCAGGCGCAGAAGGCGCCACGAGGACCCCACTGCCCGACGTTGCCAC
GGTCTGGGATCAGAGGCAGGGACCAGGGAGCCAGGAAGTGCGCCGCCCCCG
CCCCTGCCCTGGCGCGAGGGAAGCTCCCTCACNGAGGGAAGCTCCCCTCAC
CCGGCCCAGCCCTGCAGGGGGGCGCGTGGGGTCAGACCGCAAAGCGAAGGT
GCGGGCCGGGGTGGGCCTCGCGGAGACAAAGGCCGGGCCTGCCTCTCTCAGA
GGGCCCCAGCGCCTGCCAAGAGGAAGTCCTCGAGGCCCGGGCAGGGAAGGG
GGCACGGGCTTCCCAGGGCCCCGCCGCGCAGCAGGAAGTTGGCCAGGGCA
CGGCCGTGAGCGGAGCGGGCAGGGCTTTCTCAGGAGCGCGGGCGAGGCCGG
CGCTGGAGGGGCGAGGACCGGGTATAAGAAGCCTCGTGGCCTTGCCCGGGC
AGCCGCAGGTTCCCCGCGCGCCCCGAGCCCCCGCGCC

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Fig. 9A

GTTCTCTGTTTTGTGTTGGTAGGCGTTGCTTTCTTGGTGGATTCACTGGCCAAG
CCTGTGGTAGAACCCGTGGCTGCCATTGCTACAGCTGCAGAGGCTGTGGCAG
GGGCTGTGCCTAGCCTACCATTAAGCCACTTGGCCATCCTGAGGTTTCATCGTG
ACCAGCCTGGGCATCCCATTTGGATCCTCTCATAGATGGTTCCAGGAAGTGCGT
CACCGAGCTGGGCCCTGAGGCTGTAGGAGCTGTGAAGTCACTGCTGGGGGCC
CTGACAACGTTCCGT

Fig. 9B

VLCFVLVGVAFLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSL
GIPLDPLIDGSRKCVTELGPVAVGAVKSLLGALTTFG

Fig. 9C

TTCTTGGTGGATTCACTGGCCAAGCCTGTGGTAGAACCCGTGGCTGCCATTGC
TACAGCTGCAGAGGCTGTGGCAGGGGCTGTGCCTAGCCTACCATTAAGCCAC
TTGGCCATCCTGAGGTTTCATCGTGACCAGCCTGGGCATCCCATTTGGATCCTCT
CATAGATGGTTCCAGGAAGTGCGTCACCGAGCTGGGCCCTGAGGCTGTAGGA
GCTGTGAAGTCACTGCTGGGGGCCCTGACAACGTTCCGT

Fig. 9D

FLVDSLAKPVVEPVAAIATAAEAVAGAVPSLPLSHLAILRFIVTSLGIPLDPLIDGS
RKCVTELGPVAVGAVKSLLGALTTFG

↓

Human HIN1	M K L A A . L L G L C V A L S C S S A R A P L E Y G
Mouse HIN1	M K L T T T F L V L C V A L L S D S G V A F F M D
Rat HIN-1	V L C F V L V G . . . V A F L Y D
	M K L . . . L V L C V A L . . . S V A F L . D

Human HIN1	S . A K P V A Q P V A A L E S A A E A G A G T L A
Mouse HIN1	S L A K P A V E P V A A L A P A A E A V A G A V P
Rat HIN-1	S L A K P V V E P V A A I A T A A E A V A G A V P
	S L A K P V V E P V A A L A . A A E A V A G A V P

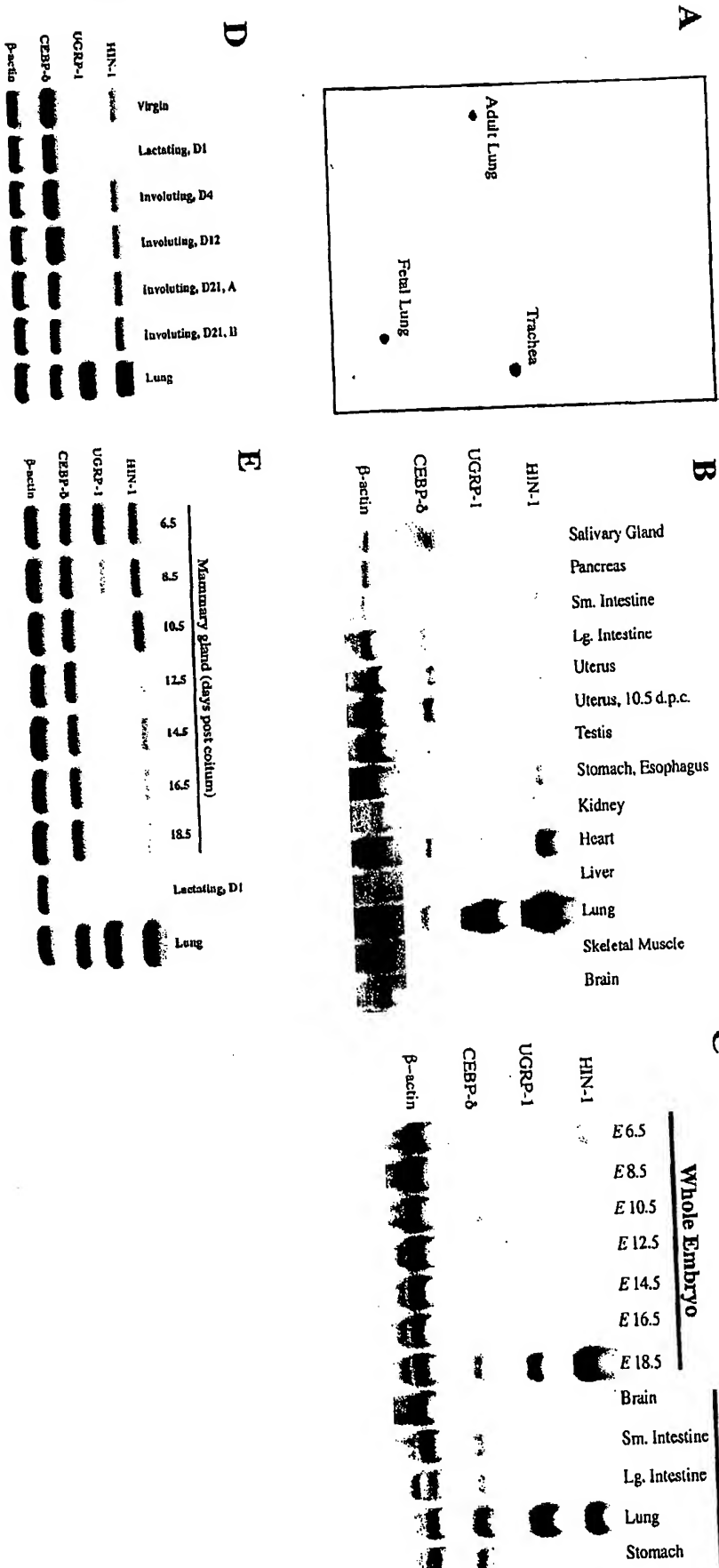
Human HIN1	N - P L G T L N P L K L L S S L G I P V N H L I
Mouse HIN1	S L P L S H L A I L R F I L A S M G I P L D P L I
Rat HIN-1	S L P L S H L A I L R F I V T S L G I P L D P L I
	S L P L S H L A I L R F I L . S . G I P L D P L I

Human HIN1	E G S Q K C V A E L G P Q A V G A V K A L K A L L
Mouse HIN1	E G S R K C V T E L G P E A V G A V K S . . . L L
Rat HIN-1	D G S R K C V T E L G P E A V G A V K S . . . L L
	E G S R K C V T E L G P E A V G A V K S . . . L L

Human HIN1	G A L T V F G
Mouse HIN1	G V L T M F G
Rat HIN-1	G A L T T F G
	G A L T . F G

Fig. 10

Fig. 11



Matter No.: 00530-094001
Applicant(s): Kornelia Polyak et al.
HIN-1, A TUMOR SUPPRESSOR GENE

10001047-002202

Fig. 12

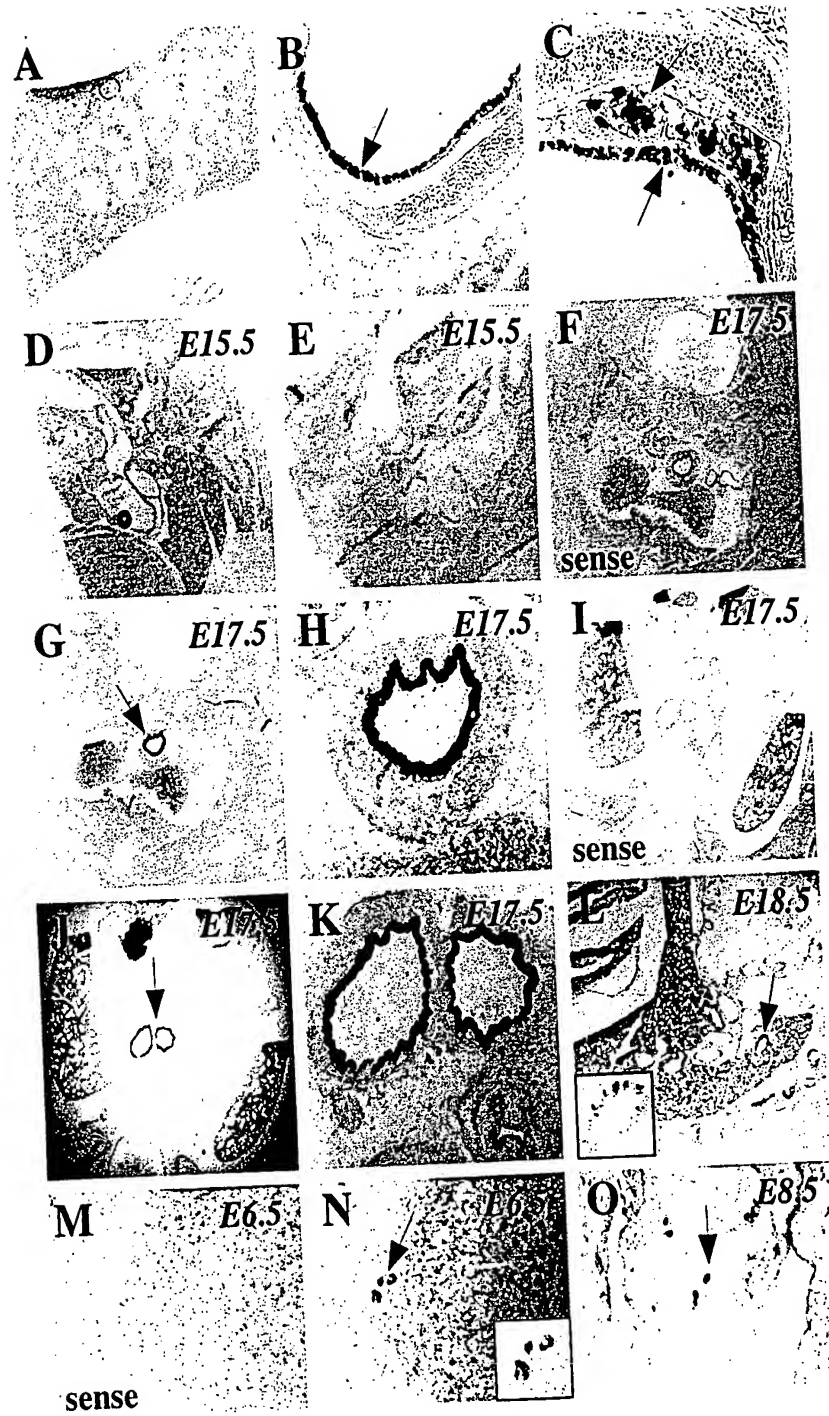


Fig. 14

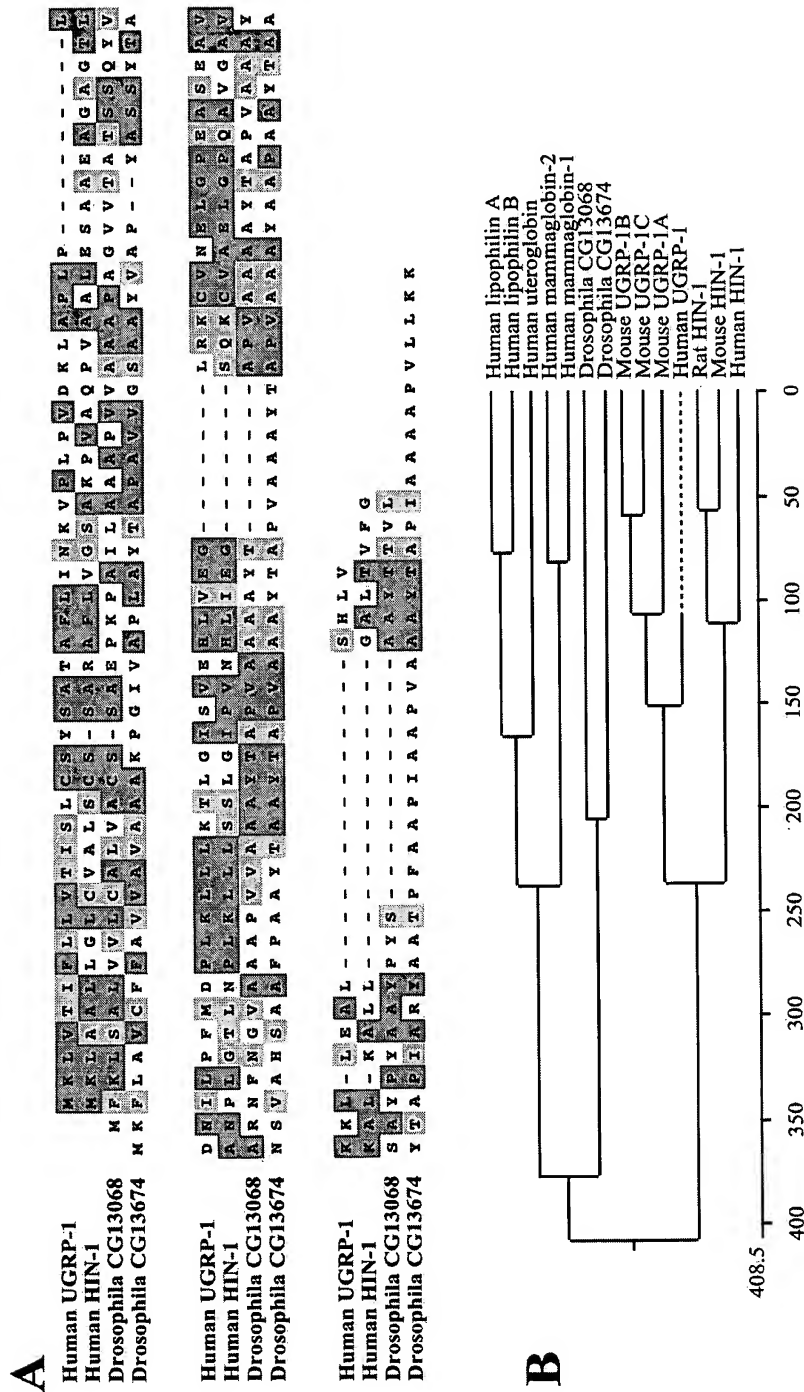


Fig. 15

ATGTTCAAGCTGTCTGCCCTCGTTGTCCTGTGCGCTCTGGTGGCCTGCTCCTCG
GCTGAGCCCAAGCCCGCTATCCTGGCCGCCGCTCCAGTGGTTGCAGCTGCTCC
TGCCGGCGTGGTACCCGCTACCAAGTTCGCAGTACGTGGCCCGCAACTTCAAC
GGTGTGGCTGCTGCTCCAGTTGTTGCCGCTGCCTACACCGCTCCAGTTGCCCG
CGCTGCCTATACCGCTCCAGTTGCCGCCGCTGCTTATACCGCTCCAGTTGCCG
CTGCCTACTCTGCTTATCCGTATGCCGCCTACCCTTACAGCGCTGCATACACC
ACTGTTTTG

Fig. 16

ATGAAATTCCTCGCCGTCTGCTTCTTCGCTGTTGTGGCTGTGGCTGCTGCCAA
ACCCGGTATTGTGGCTCCTCTGGCCTACACCGCTCCGGCTGTGGTGGGCAGTG
CCGCCTACGTGGCTCCCTACGCCTCCAGCTACACCGCCAACTCGGTGGCCCAC
AGCGCCGCCTTCCCAGCTGCCTACACCGCCGCCTACACTGCTCCCGTTGCTGC
TGCCTATACCGCTCCAGTGGCTGCTGCTTATACCGCTCCAGTGGCCGCTGCGT
ACGCCGCCCCAGCTGCCTATACCGCTGCCTACACCGCCCCCATTGCCCGTTAT
GCCGCCACCCCTTCGCAGCACCCATCGCCGCTCCCGTGGCTGCCGCCTACAC
CGCCCCCATCGCCGCCGCTGCCCCAGTTCTGCTGAAGAAG